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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

Product identifier		
Product No.:	Product name:	Common name(s), synonym(s)
236950	Bottle Tryptic Soy Agar 500G	No data available

### Recommended restrictions

**Recommended use:** Laboratory Chemicals  
**Restrictions on use:** None known.

### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 7 Loveton Circle  
Sparks, MD 21152  
USA

Telephone: 1 844 823 5433  
Fax: not available  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

Not classified

### Label Elements

**Hazard Symbol:** No symbol  
**Signal Word:** No signal word.  
**Hazard Statement:** Not applicable  
**Precautionary Statements:** Not applicable



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**Other hazards which do not result in GHS classification:** None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
protein hydrolyzates, animal (high hydrolysis)	No data available.	100085-61-8	35.9832%
Saccharomyces cerevisiae, exteact	No data available.	84604-16-0	3.8554%
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.	113-24-6	0.6426%
Sulfurous acid, sodium salt (1:1)	No data available.	7631-90-5	0.1285%
Zinc chloride (ZnCl <sub>2</sub> )	No data available.	7646-85-7	0.0051%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### Description of necessary first-aid measures

<b>General information:</b>	Get medical attention if symptoms occur.
<b>Inhalation:</b>	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.
<b>Skin Contact:</b>	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
<b>Eye contact:</b>	Flush thoroughly with water. If irritation occurs, get medical assistance.
<b>Ingestion:</b>	Get medical attention if symptoms occur.
<b>Personal Protection for First-aid Responders:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

**5. Fire-fighting measures**

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** None known.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** No special precautionary health measures should be needed under anticipated conditions of use.



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**Methods and material for containment and cleaning up:** No specific clean-up procedure noted.

**Environmental Precautions:** Avoid release to the environment.

## 7. Handling and storage

### Handling

**Technical measures (e.g. Local and general ventilation):** No special requirements under ordinary conditions of use and with adequate ventilation.

**Safe handling advice:** When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance measures:** No data available.

### Storage

**Safe storage conditions:** Store in a cool, dry place. Keep container tightly closed.

**Safe packaging materials:** No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	5 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Sulfurous acid, sodium salt (1:1) - Particulate.	AN ESL	5 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	50 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Sulfurous acid, sodium salt (1:1)	TWA PEL	5 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended
	REL	5 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical



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			Hazards, as amended
Zinc chloride (ZnCl <sub>2</sub> ) - Fume.	TWA	1 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	2 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	2 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	TWA	1 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Zinc chloride (ZnCl <sub>2</sub> ) - Particulate.	AN ESL	2 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	20 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Zinc chloride (ZnCl <sub>2</sub> ) - Fume.	STEL	2 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA PEL	1 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	STEL	2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended
	TWA	1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended
	REL	1 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	2 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Zinc chloride (ZnCl <sub>2</sub> )	IDLH	50 mg/m <sup>3</sup>	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

**Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

**Appropriate Engineering Controls** No special requirements under ordinary conditions of use and with adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:** Material: Chemical resistant gloves



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**Skin and Body Protection:** Wear a lab coat or similar protective clothing.

**Respiratory Protection:** Respiratory protection not required.

**Hygiene measures:** Observe good industrial hygiene practices.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

**Physical state:** solid  
**Form:** solid  
**Color:** According to product specification.

**Odor:** Characteristic

**Odor Threshold:** No data available.

**Melting Point:** No data available.

**Boiling Point:** No data available.

**Flammability:** Not applicable

#### Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** Not applicable

**Explosive limit - lower:** Not applicable

**Flash Point:** Not applicable

**Self Ignition Temperature:** Not determined.

**Decomposition Temperature:** Not applicable

**pH:** No data available.

#### Viscosity

**Dynamic viscosity:** Not determined.

**Kinematic viscosity:** Not determined.

**Flow Time:** Not applicable

#### Solubility(ies)

**Solubility in Water:** Completely Soluble

**Solubility (other):** No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Vapor pressure:** No data available.

**Relative density:** No data available.

**Density:** No data available.

**Bulk density:** Not applicable



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<b>Vapor density (air=1):</b>	Not applicable
<b>Particle characteristics</b>	
<b>Particle Size:</b>	Not applicable
<b>Particle Size Distribution:</b>	Not applicable
<b>Specific surface area:</b>	Not applicable
<b>Surface charge/Zeta potential:</b>	Not applicable
<b>Assessment:</b>	Not applicable
<b>Shape:</b>	Not applicable
<b>Crystallinity:</b>	Not applicable
<b>Surface treatment:</b>	Not applicable

**Other information**

<b>Metal Corrosion:</b>	Non-corrosive per US Department of Transportation testing protocol.
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**10. Stability and reactivity**

<b>Reactivity:</b>	Material is stable under normal conditions.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Not known.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizers.
<b>Hazardous Decomposition Products:</b>	Not known.

**11. Toxicological information**

**Information on likely routes of exposure**

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.



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**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

<b>Product:</b>	ATEmix: 4,342.84 mg/kg
<b>Components:</b> protein hydrolyzates, animal (high hydrolysis)	LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study
Saccharomyces cerevisiae, ext.	LD 50 (Mouse): > 2,000 mg/kg Experimental result, Key study LD 50 (Rat): > 8,000 mg/kg Experimental result, Supporting study LD 50 (Mouse): > 2,000 mg/kg Experimental result, Supporting study
Sodium pyruvate	No data available.
Sodium hydrogensulfite	LD 50 (Rat): 2,746 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): 2,610 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): 3,200 mg/kg Read-across from supporting substance (structural analogue or surrogate), Supporting study LD 50 (Rat): > 2,150 - < 2,610 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg Read-across from supporting substance (structural analogue or surrogate), Supporting study
Zinc chloride	LD 50 (Mouse): 1,260 mg/kg Experimental result, Key study LD 50 (Rat): 1,100 mg/kg Experimental result, Key study

**Dermal**

<b>Product:</b>	ATEmix: 44,875.4 mg/kg
<b>Components:</b> protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, ext.	LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study
Sodium pyruvate	No data available.



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Sodium hydrogensulfite	LD 50 (Rat): > 2,000 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study
Zinc chloride	LD 50 (Rabbit): > 2,000 mg/kg Read-across based on grouping of substances (category approach), Key study

**Inhalation**

**Product:** No data available.

**Components:**  
protein hydrolyzates, No data available.  
animal (high hydrolysis)

Saccharomyces cerevisiae, ext. No data available.

Sodium pyruvate No data available.

Sodium hydrogensulfite	LC 50 (Rat): > 22 mg/l Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study
Zinc chloride	LC 50 (Rat): 2,000 mg/m <sup>3</sup> Aerosol, Experimental result, Key study

**Repeated dose toxicity**

**Product:** No data available.

**Components:**  
protein hydrolyzates, NOAEL (Rat(Female, Male), Oral, 90 d): > 1,000 mg/kg Oral Experimental result, Key study  
animal (high hydrolysis)

Saccharomyces NOAEL (Rat(female), Oral, 13 Weeks): 2,000 mg/kg Oral Experimental result, Key study



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cerevisiae, ext.	NOAEL (Rat(female), Oral, 13 Weeks): 300 mg/kg Oral Experimental result, Supporting study
Sodium pyruvate	No data available.
Sodium hydrogensulfite	NOAEL (Rat, Oral, 1 - 2 yr): 0.05 %(m) Oral Experimental result, Supporting study NOAEL (Rat(female), Oral, 8 Weeks): 70 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Female, Male), Oral, 10 - 730 d): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Female, Male), Oral, 21 - 104 Weeks): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Pig(Female, Male), Oral, 48 Weeks): 0.35 %(m) Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study
Zinc chloride	NOAEL (Rat(Female, Male), Oral, 13 Weeks): 3,000 ppm(m) Oral Read-across based on grouping of substances (category approach), Key study NOAEL (Rat(Female, Male), Oral, 13 Weeks): 31.52 mg/kg Oral Read-across based on grouping of substances (category approach), Key study NOAEL (Mouse(Female, Male), Oral, 13 Weeks): 3,000 ppm(m) Oral Read-across based on grouping of substances (category approach), Key study

**Skin Corrosion/Irritation**

**Product:**

No data available.

**Components:**

protein hydrolyzates,  
animal (high  
hydrolysis)

in vivo (Rabbit): Not irritant , 72 h

Saccharomyces  
cerevisiae, ext.

No data available.

Sodium pyruvate

No data available.

Sodium  
hydrogensulfite

in vivo (Rabbit): Not irritant

Zinc chloride

in vivo (Guinea pig): Moderately irritating  
in vivo (Rabbit): Highly irritating  
in vivo (Mouse): Highly irritating

**Serious Eye Damage/Eye Irritation**

**Product:**

No data available.



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**Components:**

protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, ext.	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.
Zinc chloride	No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Components:**

protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, ext.	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.
Zinc chloride	No data available.

**Carcinogenicity**

**Product:** No data available.

**Components:**

protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, ext.	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.



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Zinc chloride                      No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**ACGIH: US.ACGIH Threshold Limit Values:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**

**Product:**                                      No data available.

**Components:**  
protein hydrolyzates,      No data available.  
animal (high  
hydrolysis)

Saccharomyces                      No data available.  
cerevisiae, ext.

Sodium pyruvate                      No data available.

Sodium                                      No data available.  
hydrogensulfite

Zinc chloride                              No data available.

**In vivo**

**Product:**                                      No data available.

**Components:**  
protein hydrolyzates,      No data available.  
animal (high  
hydrolysis)

Saccharomyces                      No data available.  
cerevisiae, ext.



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Sodium pyruvate No data available.

Sodium hydrogensulfite No data available.

Zinc chloride No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**  
protein hydrolyzates, No data available.  
animal (high hydrolysis)

Saccharomyces cerevisiae, ext. No data available.

Sodium pyruvate No data available.

Sodium hydrogensulfite No data available.

Zinc chloride No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**  
protein hydrolyzates, No data available.  
animal (high hydrolysis)

Saccharomyces cerevisiae, ext. No data available.

Sodium pyruvate No data available.

Sodium hydrogensulfite No data available.

Zinc chloride No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Components:**



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protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, ext.	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.
Zinc chloride	No data available.

**Aspiration Hazard**

**Product:** No data available.

**Components:**  
protein hydrolyzates, animal (high hydrolysis) No data available.

Saccharomyces cerevisiae, ext.	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.
Zinc chloride	No data available.

**Information on health hazards**

**Other hazards**

**Product:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**



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**Fish**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	LC 50 (Leuciscus idus, 96 h): > 215 - < 464 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Oncorhynchus mykiss, 96 h): 177.8 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Leuciscus idus, 96 h): 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Leuciscus idus, 96 h): 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Leuciscus idus, 96 h): 215 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
Zinc chloride (ZnCl <sub>2</sub> )	LC 50 (Cottus bairdii, 96 h): 439 µg/l Read-across based on grouping of substances (category approach), Key study LC 50 (Oncorhynchus kisutch, 96 h): 820 µg/l Experimental result, Key study LC 50 (Thymallus arcticus, 96 h): 112 µg/l Experimental result, Key study LC 50 (Oncorhynchus kisutch, 96 h): 1,810 µg/l Experimental result, Key study LC 50 (Oncorhynchus kisutch, 96 h): 727 µg/l Experimental result, Key study

**Aquatic Invertebrates**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	EC 100 (Daphnia magna, 48 h): 125 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study EC 50 (Daphnia magna, 48 h): 89 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study ED 0 (Daphnia magna, 48 h): 62.5 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Zinc chloride (ZnCl <sub>2</sub> )	LC 50 (Daphnia magna, 48 h): 131 µg/l Read-across based on grouping of substances (category approach), Key study EC 50 (Tetrahymena thermophila, 24 h): 21.1 mg/l Read-across based on grouping of substances (category approach), Key study EC 50 (Thamnocephalus platyurus, 24 h): 0.92 mg/l Read-across based on grouping of substances (category approach), Key study EC 50 (Tetrahymena thermophila, 24 h): 7.1 mg/l Read-across based on

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grouping of substances (category approach), Key study  
EC 50 (Daphnia pulex, 48 h): 268 µg/l Read-across based on grouping of  
substances (category approach), Supporting study

**Toxicity to Aquatic Plants**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Zinc chloride (ZnCl <sub>2</sub> )	No data available.

**Toxicity to microorganisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Zinc chloride (ZnCl <sub>2</sub> )	No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	NOAEL (Danio rerio, 34 d): >= 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Zinc chloride (ZnCl <sub>2</sub> )	NOAEL (Oncorhynchus mykiss, 30 d): 159 µg/l Experimental result, Key study NOAEL (Pimephales promelas, 7 d): 129 µg/l Read-across based on grouping of substances (category approach), Supporting study NOAEL (Clupea harengus, 17 d): 500 µg/l Read-across based on grouping of substances (category approach), Key study



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NOAEL (Salvelinus fontinalis, 8 Weeks): 720 µg/l Read-across based on grouping of substances (category approach), Key study  
NOAEL (Pimephales promelas, 8 Months): 295 µg/l Read-across based on grouping of substances (category approach), Key study

**Aquatic Invertebrates**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	NOAEL (Daphnia magna, 21 d): > 10 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LC 0 (Daphnia magna, 21 d): > 10 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Zinc chloride (ZnCl <sub>2</sub> )	NOAEL (Ceriodaphnia dubia, 1 Weeks): 29 µg/l Read-across based on grouping of substances (category approach), Key study NOAEL (Daphnia magna, 3 Weeks): 133 µg/l Experimental result, Key study NOAEL (Mya arenaria, 7 d): 25,000 µg/l Experimental result, Key study NOAEL (Daphnia longispina, 21 d): 209 µg/l Experimental result, Key study IC 25 (Paracentrotus lividus, 28 h): 30 µg/l Read-across based on grouping of substances (category approach), Key study

**Toxicity to Aquatic Plants**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Zinc chloride (ZnCl <sub>2</sub> )	No data available.

**Toxicity to microorganisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.



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Sulfurous acid, sodium salt (1:1)	No data available.
Zinc chloride (ZnCl <sub>2</sub> )	No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Components:**

protein hydrolyzates, animal (high hydrolysis) No data available.

Saccharomyces cerevisiae, exteact 87 % (29 d) Experimental result, Key study Detected in water.  
88 % (29 d) Experimental result, Key study Detected in water.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

Sulfurous acid, sodium salt (1:1) No data available.

Zinc chloride (ZnCl<sub>2</sub>) No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Components:**

protein hydrolyzates, animal (high hydrolysis) No data available.

Saccharomyces cerevisiae, exteact No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

Sulfurous acid, sodium salt (1:1) No data available.

Zinc chloride (ZnCl<sub>2</sub>) No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Components:**

protein hydrolyzates, animal (high hydrolysis) No data available.

Saccharomyces cerevisiae, exteact No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

Sulfurous acid, sodium salt (1:1) No data available.



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Zinc chloride (ZnCl<sub>2</sub>)      Various, Bioconcentration Factor (BCF): 0.45 Terrestrial Read-across based on grouping of substances (category approach), Key study  
Various, Bioconcentration Factor (BCF): 0.14 Terrestrial Read-across based on grouping of substances (category approach), Key study  
Various, Bioconcentration Factor (BCF): 1.84 Terrestrial Read-across based on grouping of substances (category approach), Key study  
Palaemon elegans (crustaceae), Bioconcentration Factor (BCF): 123 Aquatic sediment Experimental result, Key study  
Various, Bioconcentration Factor (BCF): 0.54 Terrestrial Read-across based on grouping of substances (category approach), Key study

**Partition Coefficient n-octanol / water (log Kow)**

**Product:**      Log Kow: No data available.

**Components:**  
protein hydrolyzates, animal (high hydrolysis)      No data available.  
Saccharomyces cerevisiae, exteact      No data available.  
Propanoic acid, 2-oxo-, sodium salt (1:1)      No data available.  
Sulfurous acid, sodium salt (1:1)      No data available.  
Zinc chloride (ZnCl<sub>2</sub>)      No data available.

**Mobility in soil:**

**Product**      No data available.

**Components:**  
protein hydrolyzates, animal (high hydrolysis)      No data available.  
Saccharomyces cerevisiae, exteact      No data available.  
Propanoic acid, 2-oxo-, sodium salt (1:1)      No data available.  
Sulfurous acid, sodium salt (1:1)      No data available.  
Zinc chloride (ZnCl<sub>2</sub>)      No data available.

**Results of PBT and vPvB assessment:**

**Product**      No data available.

**Components:**  
protein hydrolyzates, animal (high hydrolysis)      No data available.  
Saccharomyces cerevisiae, exteact      No data available.  
Propanoic acid, 2-oxo-, sodium salt (1:1)      No data available.



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Sulfurous acid, sodium salt (1:1)	No data available.
Zinc chloride (ZnCl <sub>2</sub> )	No data available.

**Other adverse effects:**

**Other hazards**

<b>Product:</b>	No data available.
<b>Components:</b>	
protein hydrolyzates, animal (high hydrolysis)	No data available.
Saccharomyces cerevisiae, exteact	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Zinc chloride (ZnCl <sub>2</sub> )	No data available.

**13. Disposal considerations**

<b>General information:</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Disposal methods:</b>	No specific disposal method required.
<b>Contaminated Packaging:</b>	No data available.

**14. Transport information**

<b>DOTUN Number:</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	Not regulated.
<b>Transport Hazard Class(es)</b>	
Class:	Not regulated.
Label(s):	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Marine Pollutant:</b>	Not regulated.
Limited quantity	Not regulated.
Excepted quantity	Not regulated.
<b>Special precautions for user:</b>	Not regulated.



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**IMDG**

UN Number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
EmS No.:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine Pollutant:	Not regulated.
Special precautions for user:	Not regulated.

**IATA**

UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine pollutant:	Not regulated.
Special precautions for user:	Not regulated.

**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

**Chemical Identity**

Sulfurous acid, sodium salt (1:1)  
Zinc chloride (ZnCl<sub>2</sub>)



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**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Not classified

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

**Chemical Identity**

Sulfurous acid, sodium salt (1:1)  
Zinc chloride (ZnCl<sub>2</sub>)

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable



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**Rotterdam convention**  
Not applicable

**Kyoto protocol**  
Not applicable

<b>16. Other information, including date of preparation or last revision</b>
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**Issue Date:** 10/08/2021

**Version #:** 2.2

**Further Information:** No data available.

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